

HELLER-EDMUND

DISTRIBUTION MAPS

ADENOTA

AEPYCEROS

CERATOTHERIUM

GAZELLA

KOBUS

NESOTRAGUS

ONOTRAGUS

PROCAVIA

TRAGELAPHUS

Hobus vancouveri?

658

Bad

Label No

659

" "

" "

660

" "

" "

Hobus thomasi

449	♂ yg	Myoia River				
451	" ad	" "				
452	♀ yg	" "				
453	♂ "	" "				
456	" ad	" "				
458	♀ "	" "				
459	" "	" "				
468	" "	" "				
469	♂ "	" "				

Kobus col sp?

590	♂ ad	Rhino Camp				
594	♀ "	"	"			
604	♂ yg	"	"			
611	" ad	"	"			
624	♀ "	"	"			
626	♂ "	"	"			
630	" "	"	"			

Aderona yball

	164774 <i>vaughani</i> brun red	164770 <i>leucotis</i> red	164778 <i>teraf</i>	164781
Sex + age	♂ ad	♂ ad	♀ ad	♀ ad
basal eye	273	275	256	251
zyg. Bd.	110	111	98	101
throat	74	73	74	65
diastema	86	86	84	87
pal. mid. mt	68	70	65	67
hy. front part	105	100	76	broken
nasals.	115/25	121/29	107	109
premax	93	85	76	90
orbit to pteryg	157	152	161	158

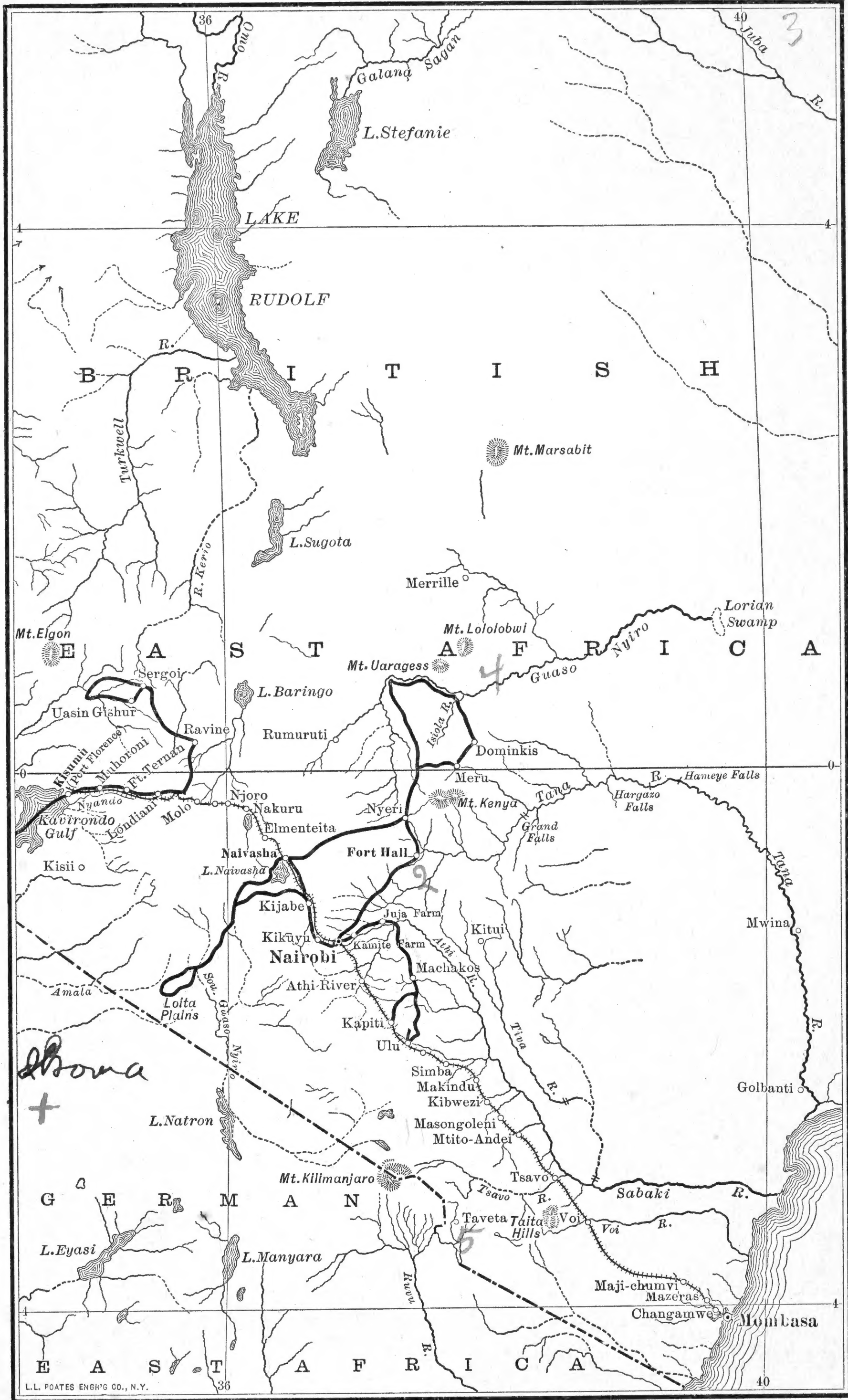
Hobus maria

		Label no.				
655	♂ ad					
656	" "					
657	" "					
661	♀ "					

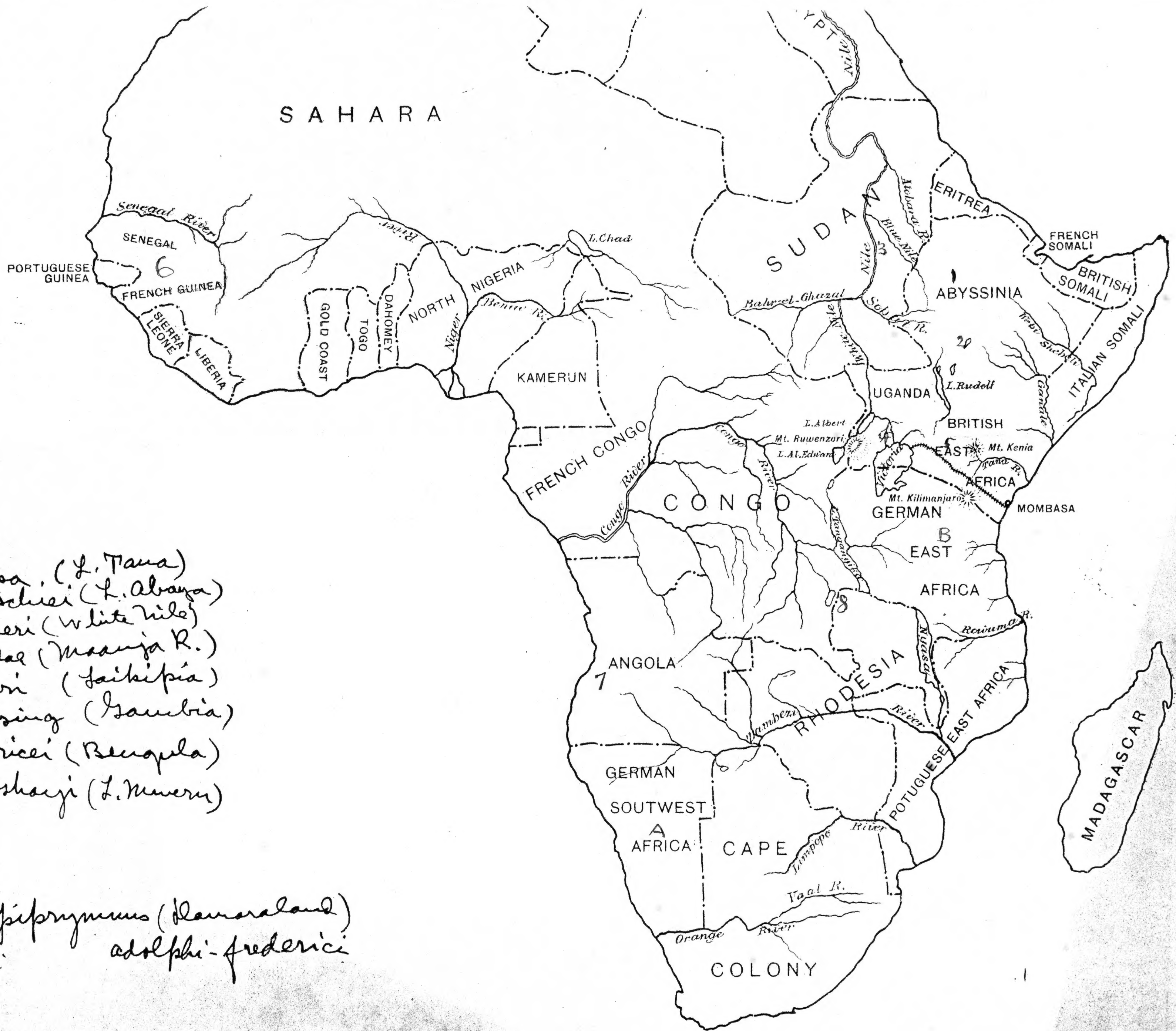
Nobius leucotis

662	♂ ad	Fahr No.
663	♀ "	Bahr-el-Zeraj.
664	♂ "	" "
665	" "	" "
666	♀ "	" "

Ko. ellipsiprimum



- + adolphi-federici (Isona)
- 2 thiba
- 3 pallidus
- 4 canescens
- 5 purus

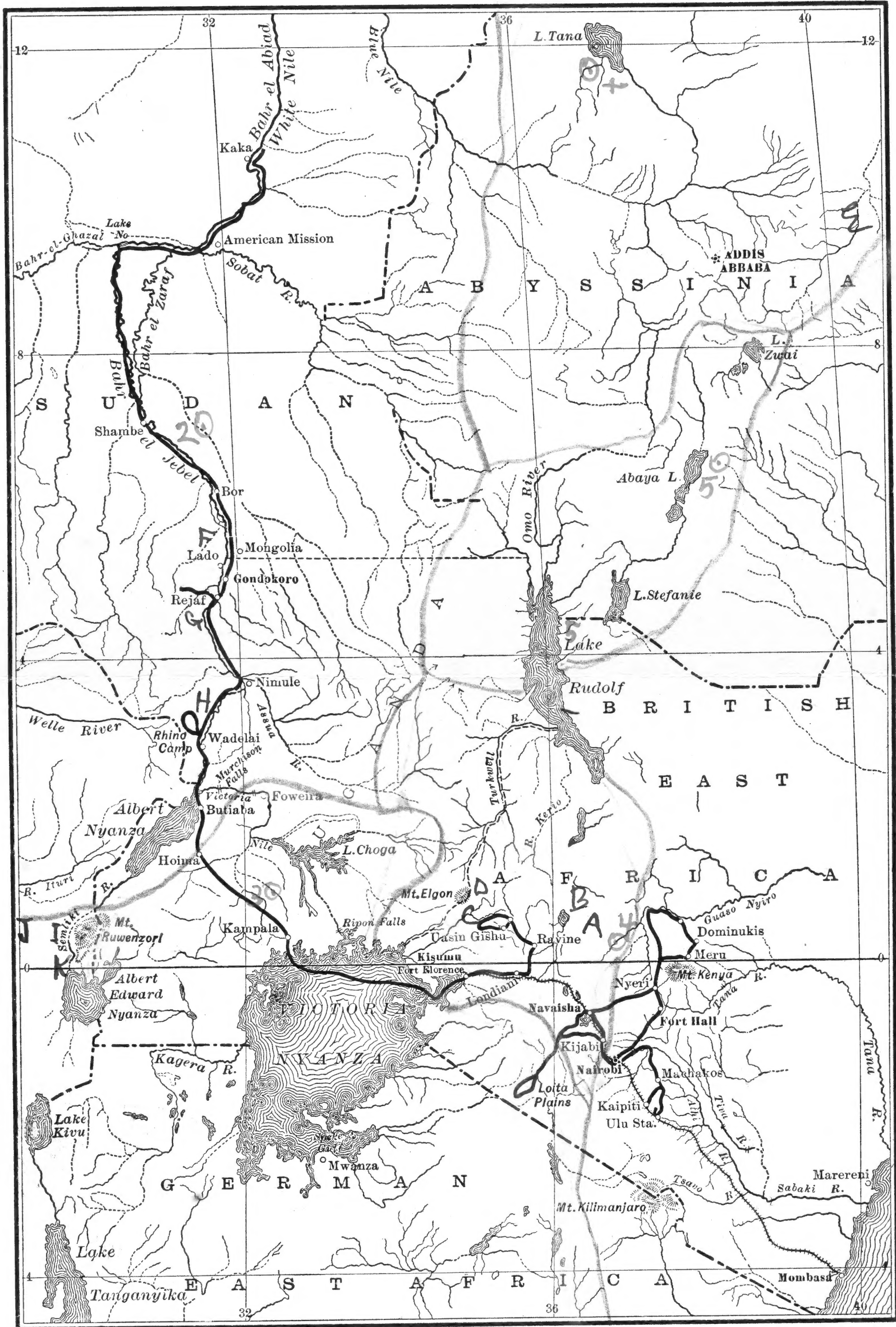


Kobus

- 1 defassa (L. Tana)
- 2 mitchelli (L. Abaya)
- 3 harrieri (White Nile)
- 4 ugandae (Maanja R.)
- 5 gaderi (Saihipia)
- 6 siingsing (Gambia)
- 7 pernicii (Bequaqua)
- 8 crawshayi (L. Mweru)

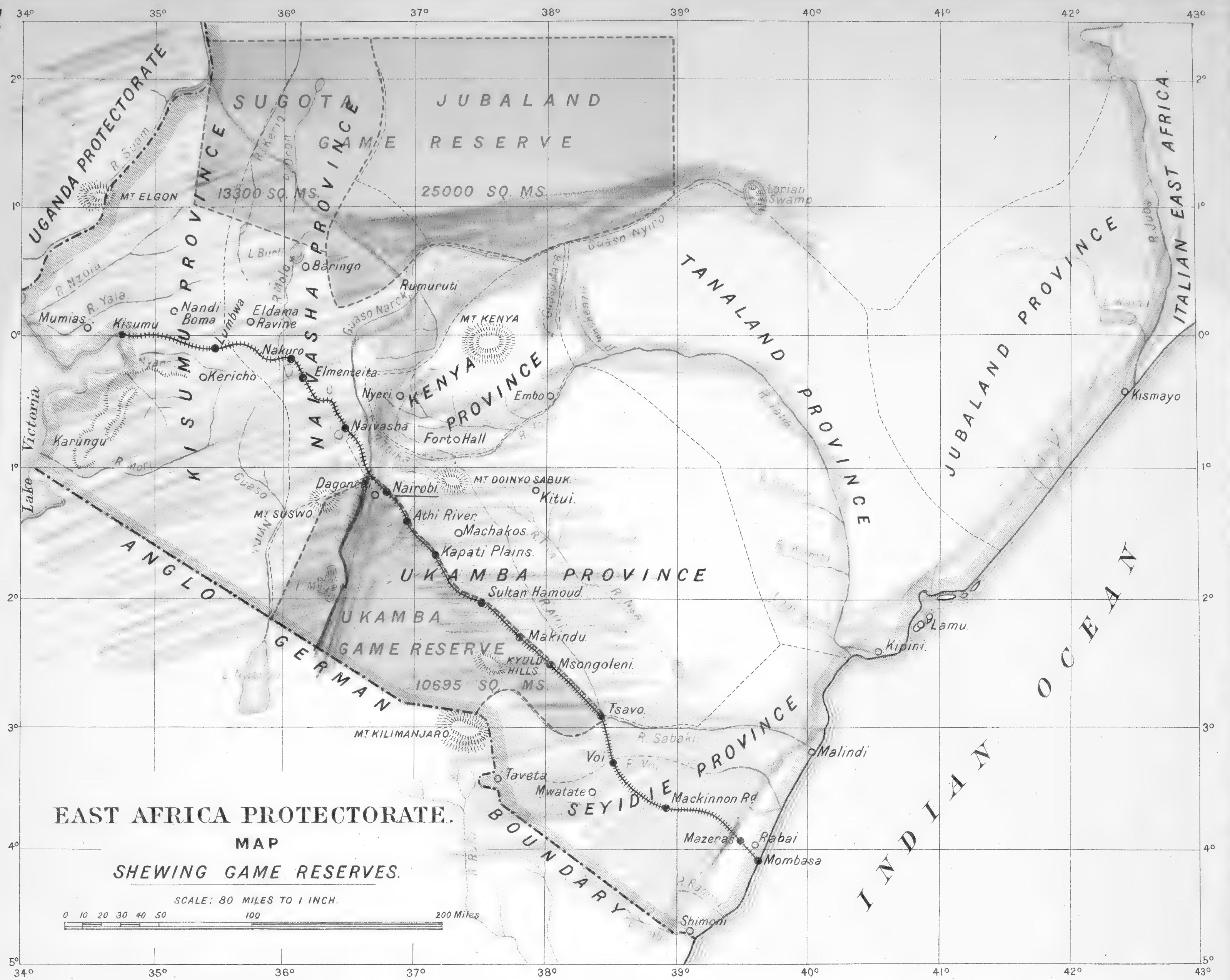
A *ellipiprymus* (Namoraland)
 B " *adolphi-frederici*

removed to Box 10

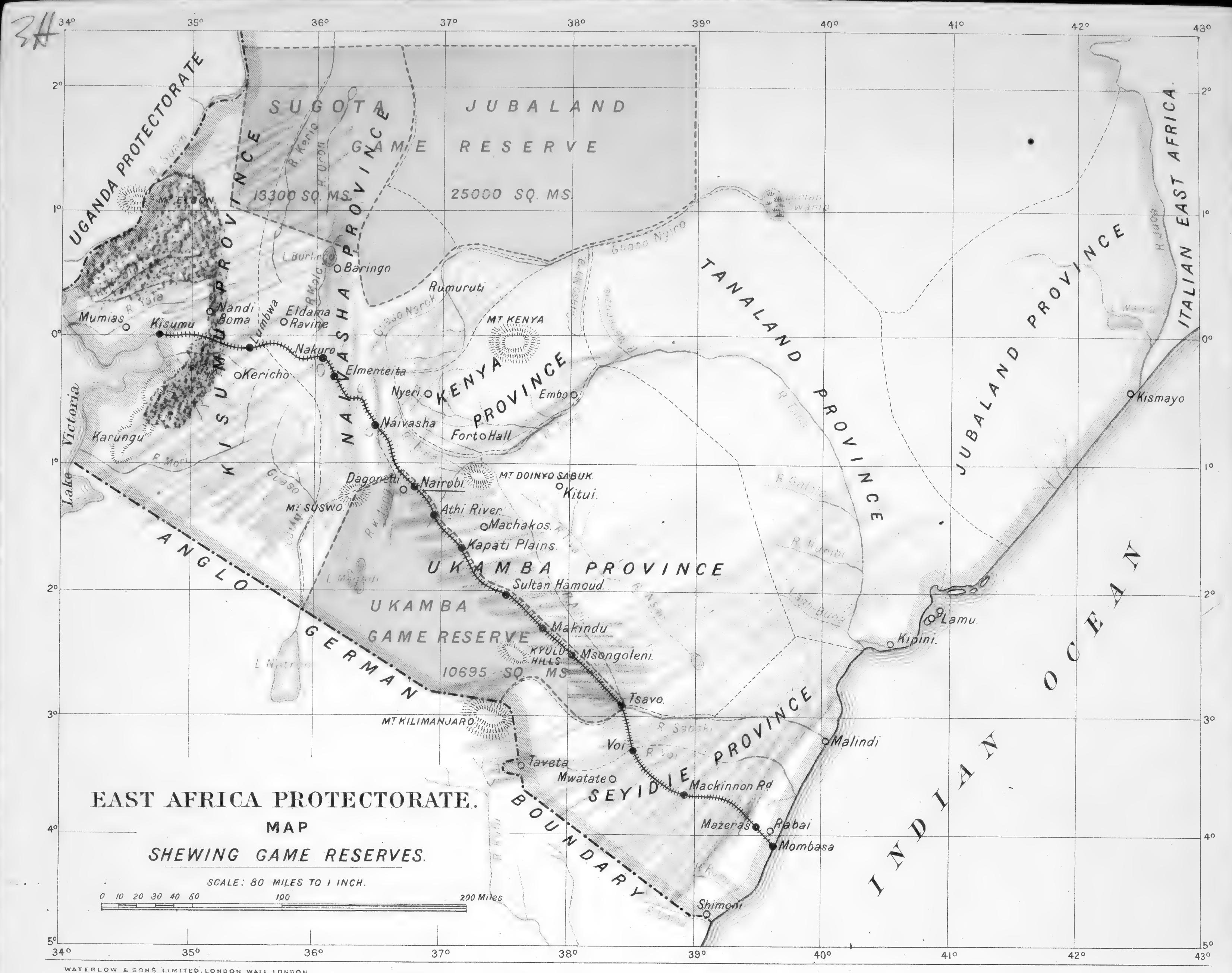


- 1910
Matschie (defassa)
 A *powelli*
 B *angusticeps*
 C *nyoiae*
 D *fulvifrons*
 E *hawashensis*
 F *griseotinctus*
 G *ladolensis*
 H *breviceps*
 I *avellanifrons*
 J *dranae*
 K *cottoni*

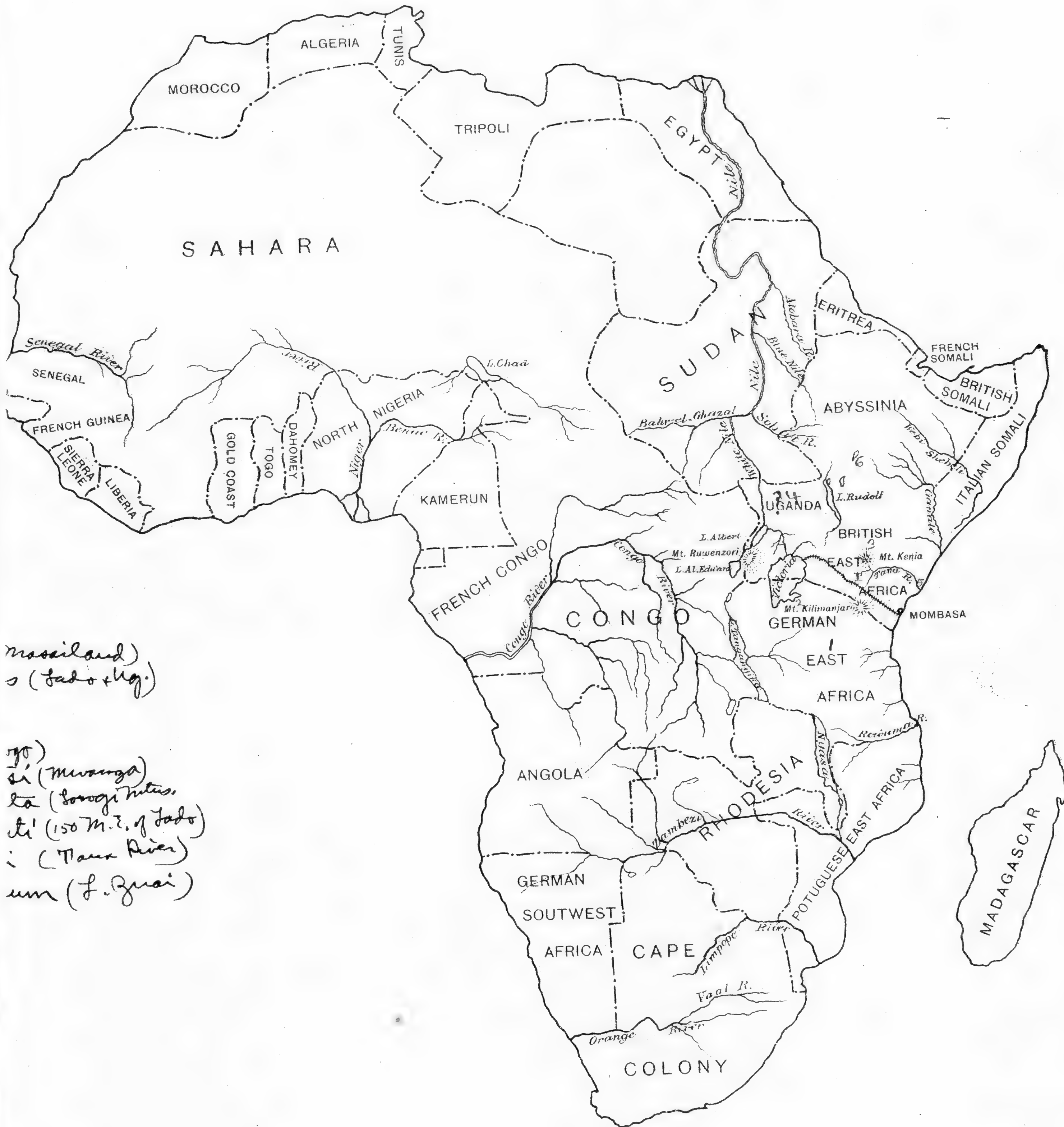
- + *Kobus defassa*
 2 " " *barrieri*
 3 " " *ugandae*
 4 " " *tjaderi*
 5 " " *matschiei*



— *Robus ellipsiprymnus*
 — *defassa*



= *Kolus ellipsiprymus*
 = " *defansa*
 = *Aderota Thomasi*



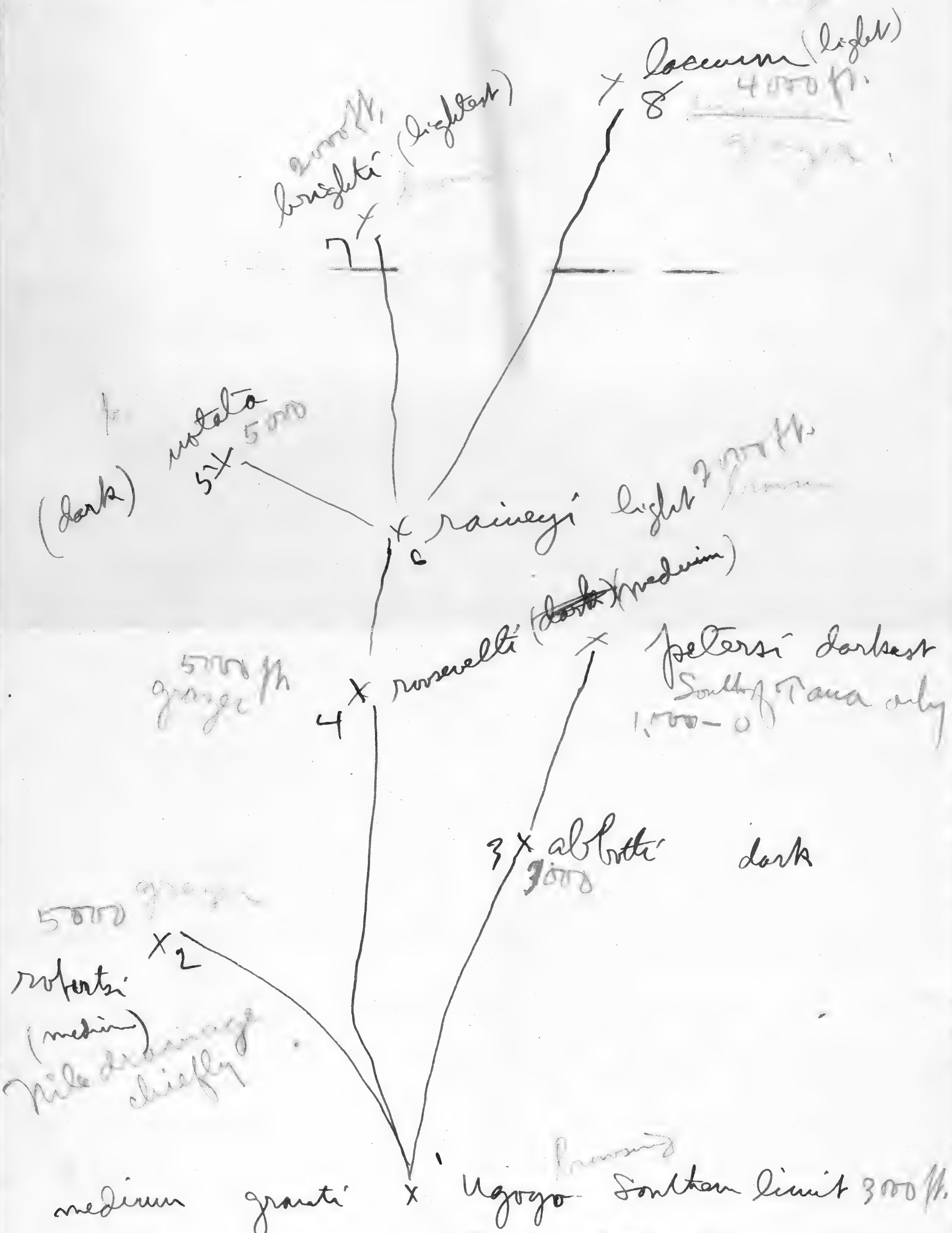
masailand)
s (fado + Ng.)

yo)
si (Mwanga)
ta (Songozi mtus.
ti' (150 M. E. of fado)
i (Tana River)
um (L. Quai)

Removed to Box 10

Races of *G. granti*

altitude / elevation



5000 ft
robertsi
(medium)
Nile drainage chiefly

5000 ft
gargyi

notata
5 x 5000
(dark)

2000 ft
brighti (lightest)

petersi darkest
South of Tana only
1,000-0

3 x abboti
3000 dark

medium granti x Ugogo - Southern limit 3000 ft.

2700-3000 - dry wet plain
Horns longer than Albi + color lighter
(wider spread, approaching robertsi)

S. Granti



Gazella

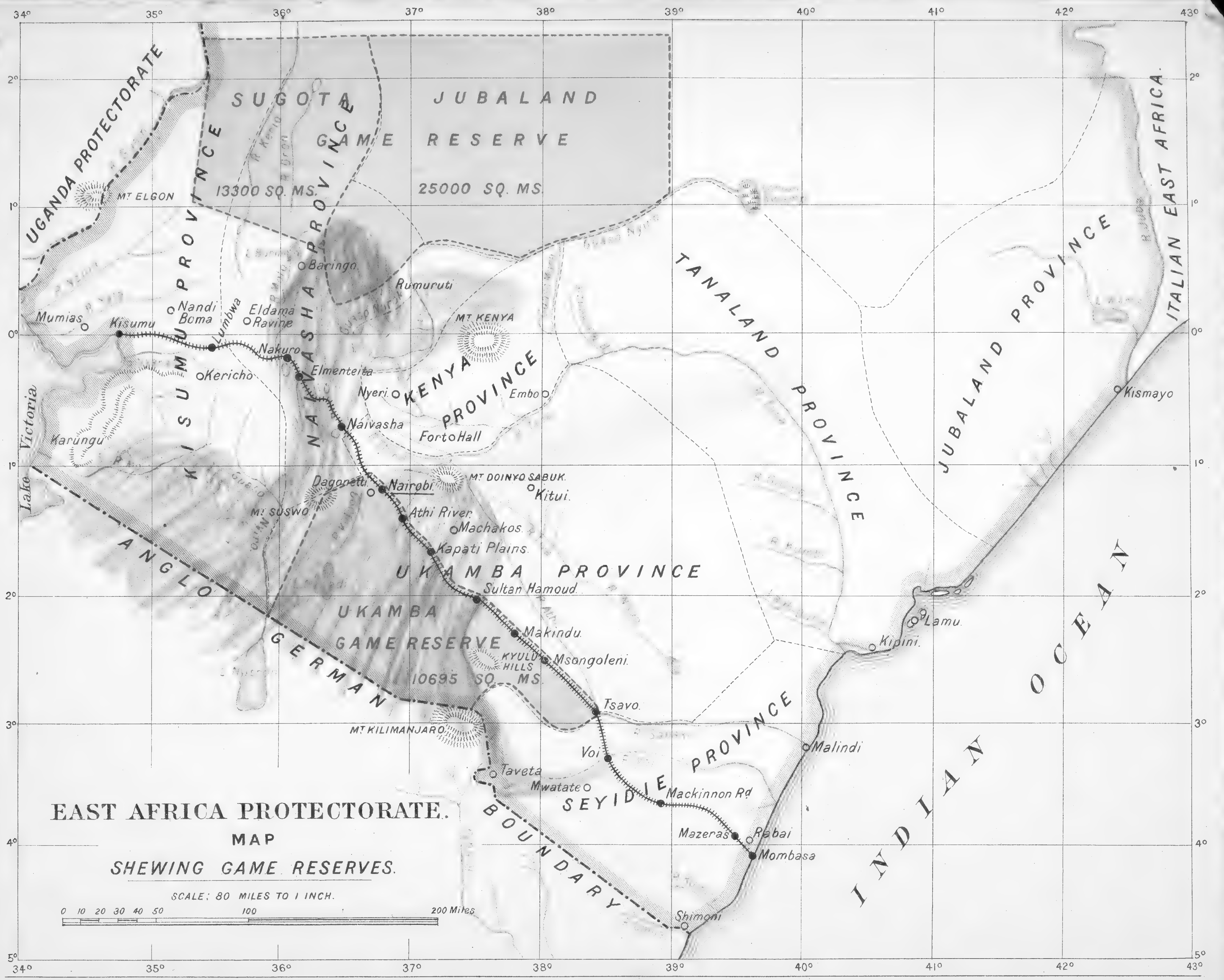
1. *thomsoni*

- 2 - *wembaerenis*
- 3 - *manynorae*
- 4 - *muranae*
- 5 - *mundrosica*
- 6 - *bergeri*
- 7 - *subasiensis*
- 8 - *ndjiriensis*
- 9 - *schillingi*
- 10 - *langheldi*
- 11 - *biedermanni*
- 12 - *nakuroensis*
- 13 - *barotseensis*
- 14 - *nasalis*

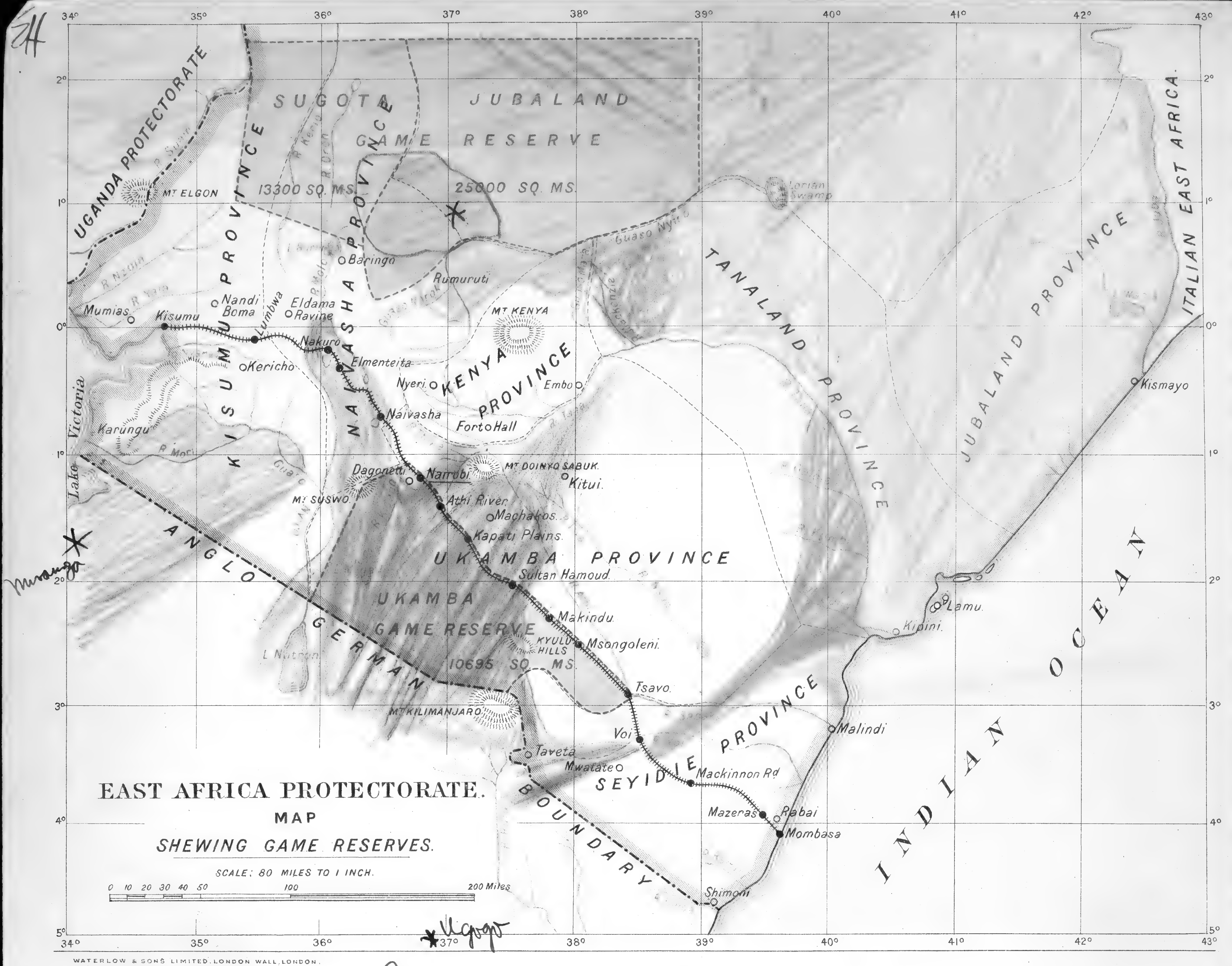
* Donaldson Smith Record / P.Z.S. 1900 p. 806
 Most northern & western
 Sub-Saharan R. the hillside on a slope an error of labelling

Remove to Box 10





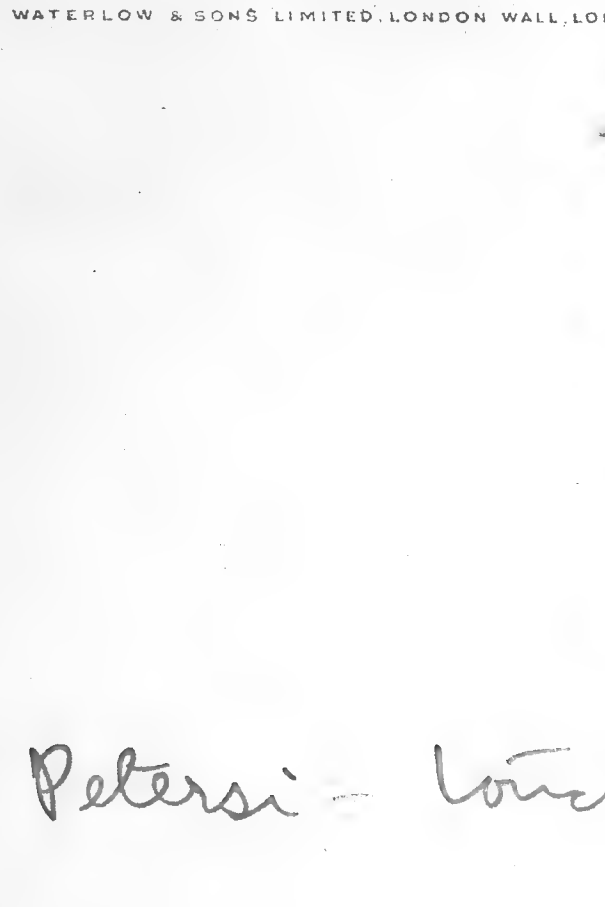
Gazella townsoni



EAST AFRICA PROTECTORATE.
MAP
SHEWING GAME RESERVES.

SCALE: 80 MILES TO 1 INCH.
0 10 20 30 40 50 100 200 Miles

— Gazella granti
 — " robertsi
 — " petersi
 — " notata
 — " brighti
 Petersi - touches RR at mile 90, only on S. bank of Tana, not known north of River.



White Rhinoceros



1. *Ceratotherium simum simum*
2. " " *cottoni*

Proof wanted.

E.H.

Cercolotherium

~~*Hircos*~~ *sinus* Cotton

12 adults
14 specimens

4 ad. comp. {
 ♀ - 2
 ♂ - 2
2 yg " "
3 ad. heads 3

skulls only ⁵ 14; total - 14
Skeletons 6

	sex	age	ht.	ear	ltg.	comp	1st Horn	2nd Horn
582	♀	ad	12 ft. 3	2 ft. 3	x	10 1/4	5 ft. 10	23 1/4 TR
583	"	yg						"
586	♂	ad	11 ft. 5	2 ft. 6	18 1/4	11 3/8	5 ft. 3	14 3/4 KR
595	"	"	11-9	2-5	x	x	5-8	24 1/4 PR
597	♀	"	10-2	2-4			5-2 head	13 1/4 "
605	"	"	11-1 3330	2-4	18 1/2	10 1/4	5-3 comp.	23 1/4 KR
606	♂	yg (fetus)						"
612	♀	ad					head	31 "
619	"	"					"	25 PR
607	♂	"					horn + skull	23 1/4 K.R
1316							"	ER
1317							"	"

photos
(Hornaday)

discards

depth
dorsal
concavity

162936

63

162938

83

162930

68

164600

61

162935

53

162931

55

162937

52

162948

54

in

36879

54

in

162933

61

162946

53

Rhinoceros micornis

Museum Lyp. Game of India

♂ ad Gen. Kinloch
Maharaja

lg.	h.	fh	en	lg	gilt
10-6	2-5			5-9	9-8
11-11	2-2			6-4	
11-2	2-			6-1	
11-8	2-2			6-½	

Holi.

	I	II	III	IV	V
	Diceratherium	Aceratherium	Brachypoda	Ceratium	Antelope
Lepticephalic	X	X		X	X
Nasal horns paired	X				
Incisors well developed	X	X	X	X	
Long limbed	X	X		X	X
Bodies slender	X				
^{nasal} horns subnasal or none		X		X	X
frontal horns small		X		X	X
Brachycephalic			X		
Nasal horns only			X		
Short limbed			X		X
Incisors pointing					X

Acipyceros melampus

MUSEUM NO.

LOCALITY.

SEX AND AGE.

Head Tail Hind Ear
 Basilar length
 H₁B
 TL
 HF
 Ear
 Foramen magnum
 plane of occipital condyles
 last vertebra
 vertebrae
 intervertebral
 basistyle

Horns
 H₁ H₂
 H₃ H₄
 H₅ H₆
 H₇ H₈
 H₉ H₁₀
 H₁₁ H₁₂
 H₁₃ H₁₄
 H₁₅ H₁₆
 H₁₇ H₁₈
 H₁₉ H₂₀
 H₂₁ H₂₂
 H₂₃ H₂₄
 H₂₅ H₂₆
 H₂₇ H₂₈
 H₂₉ H₃₀
 H₃₁ H₃₂
 H₃₃ H₃₄
 H₃₅ H₃₆
 H₃₇ H₃₈
 H₃₉ H₄₀
 H₄₁ H₄₂
 H₄₃ H₄₄
 H₄₅ H₄₆
 H₄₇ H₄₈
 H₄₉ H₅₀
 H₅₁ H₅₂
 H₅₃ H₅₄
 H₅₅ H₅₆
 H₅₇ H₅₈
 H₅₉ H₆₀
 H₆₁ H₆₂
 H₆₃ H₆₄
 H₆₅ H₆₆
 H₆₇ H₆₈
 H₆₉ H₇₀
 H₇₁ H₇₂
 H₇₃ H₇₄
 H₇₅ H₇₆
 H₇₇ H₇₈
 H₇₉ H₈₀
 H₈₁ H₈₂
 H₈₃ H₈₄
 H₈₅ H₈₆
 H₈₇ H₈₈
 H₈₉ H₉₀
 H₉₁ H₉₂
 H₉₃ H₉₄
 H₉₅ H₉₆
 H₉₇ H₉₈
 H₉₉ H₁₀₀

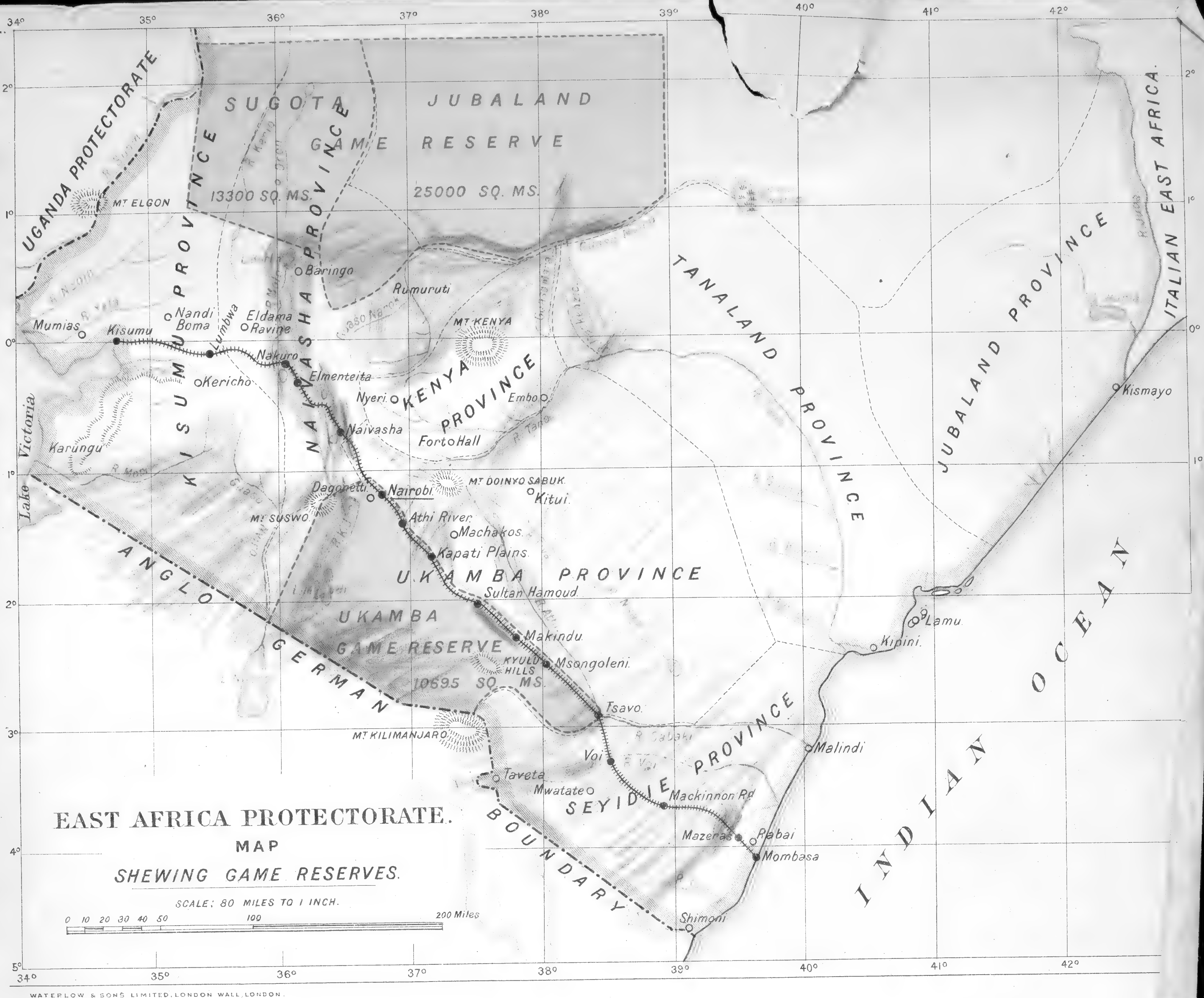
35 18 27
 12 4 8

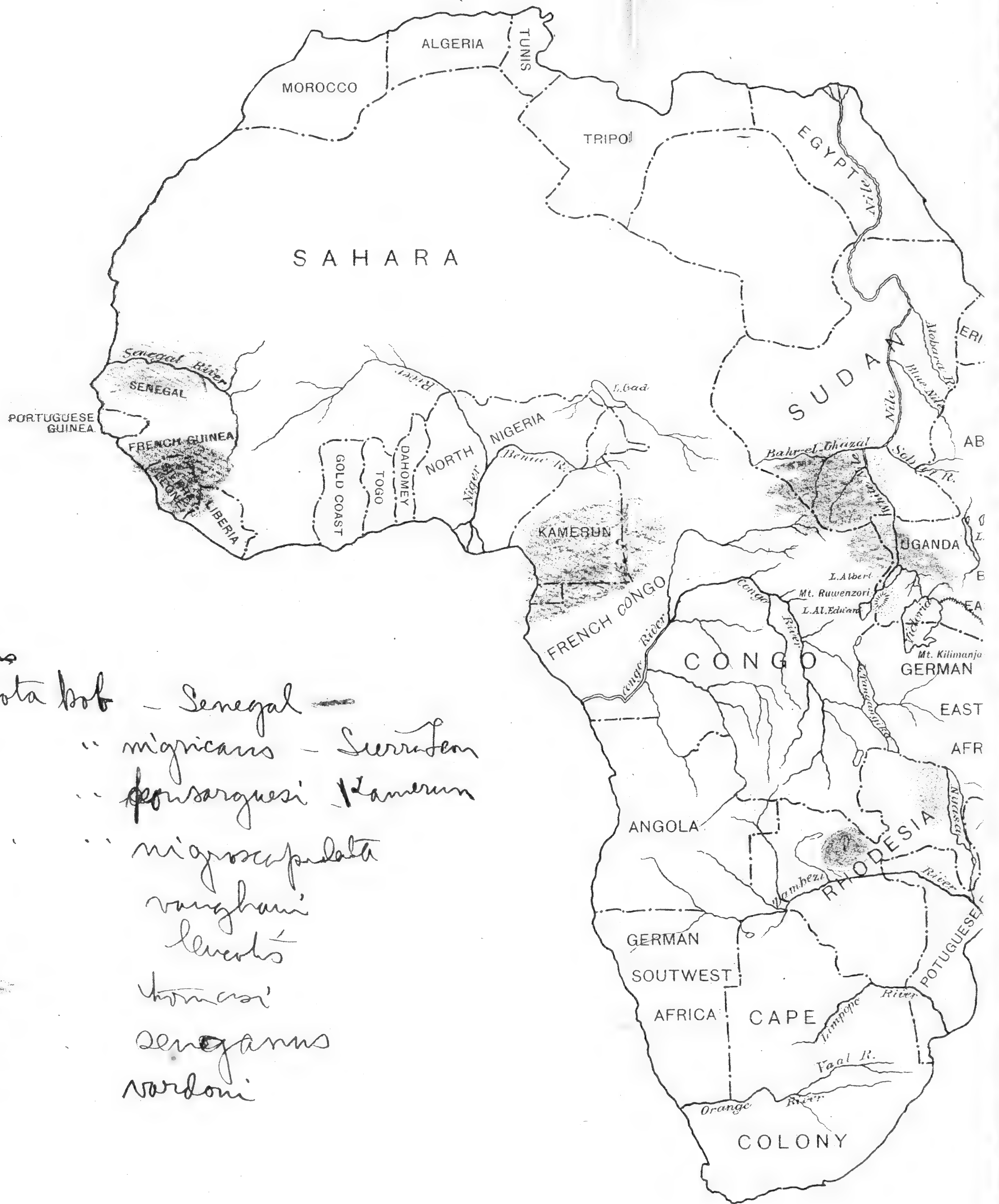
H₁B TL HF Ear skl skl
 of. lg condy
 nos

162000	Juja		♂ ad							23 1/2			
162001				1390	310	410	150			22 1/2			
163198	Loila	head	" "							10 3/8	21 1/2	9 3/8	90 34
163199	"		" "	1440	340	450	155			24 1/2			
163200	"		" "	1500	370	450	165						
163046	"		♀ "	1380	295	415				9 3/4			78 28
177911	"		" im										
163253	"		" "										
181858	"	skull	♂ ad										
181865	"		" "	1360	320	440	160			10 1/2	25 1/4	8 1/2	87 30
181893	Talshett		" "	1400	360	440	150			10 1/2	29	19 3/8	83 30
184785	"		" "										
184787	"		" "	1375	378	470	161						21
181980	"	skull	" "										
181920	Talek		" "										
163206	"	skull	" "										
163197	"		" im										
163196	"		" im										
163047	"		♀ im										
163207	Urbemia	skull	♂ ad										
163205	Narisha	skull	♂ ad										
163203	L. Hamington	head	" "										

163204	L. Bonito	skull	♂ ad							10 9/16			85 34
182036	Lakshindur		♂ "							11	26	10 3/4	93 33
163202	Nor. Ansoyiro	skull	" "							10 1/16	25 1/2	18 1/2	79 34
163201	"	skull	" "							10 3/4	25 3/4	19 1/2	85 31
18950	Taveta	skin	♀ ad										
18956	"	"	" "										
18957	"	"	im										
19707	"	head	♂										
19710	"	head	" im										
19709	"	"	" "										
18955	"	with skin	" "							10 7/8			94 33
34777	"	skull	" "							10 9/16	19	7	81 32.5

3A





- Hofens*
- *Adenota bob* — Senegal —
 - " " — nigricans — Sierra Leone
 - " " — fonsarguesi — Kamerun
 - " " — nigroscapulata
 - " " — vanghani
 - " " — leucotis
 - " " — thomasi
 - " " — senegans
 - " " — nardoni



Aepyperos melampus
 " " *johustoni* —
 " " *swara* —
 " " *petersi* —

in Box 10



Aepyceros

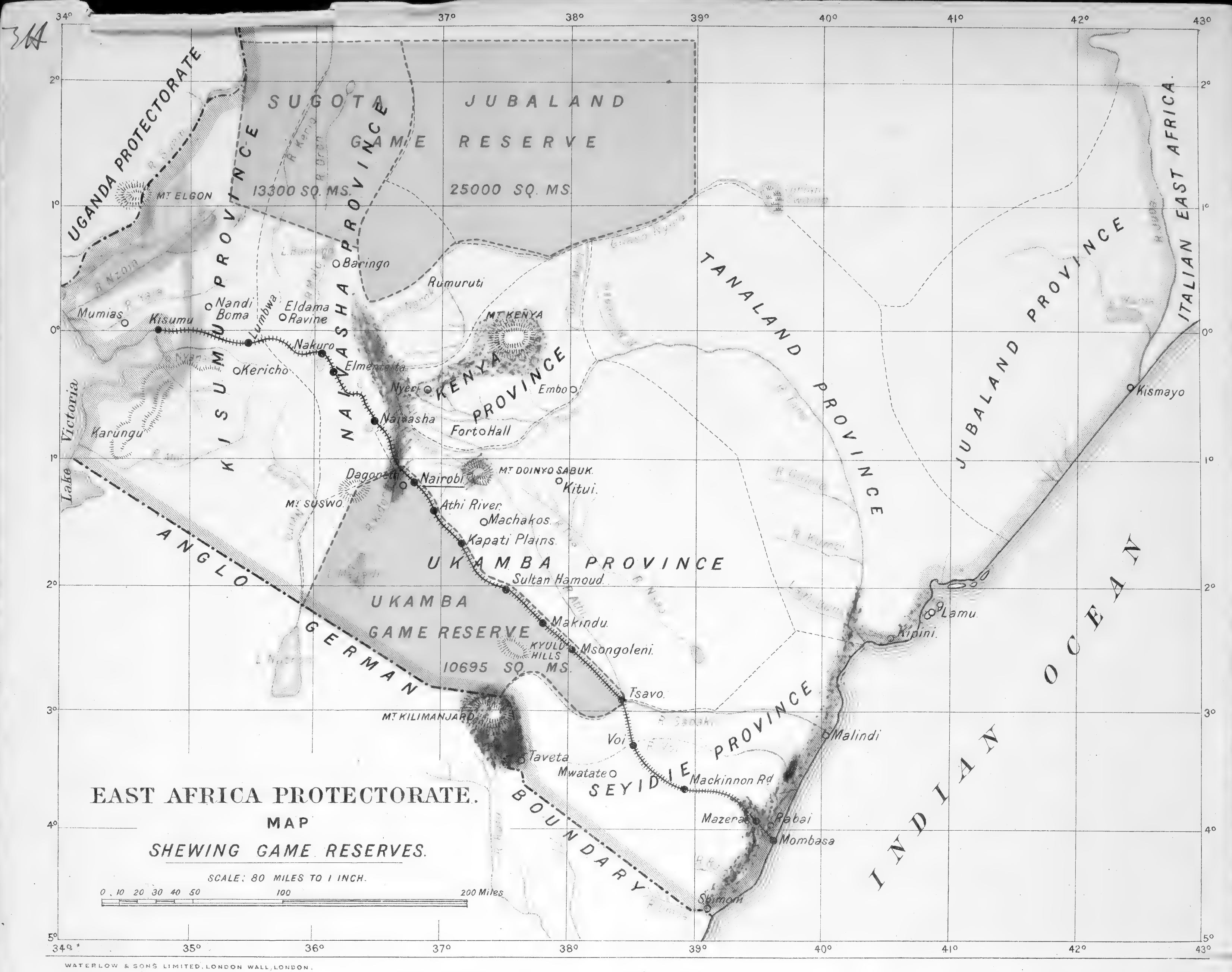
- 1. *melampus* (Klipfontein)
- 2. *johnstoni* (Zomba)
- 3. *suara* (S.E.A.)

I *petersi* (Mossamedes)

in Box 10

Odocoileus Bob.

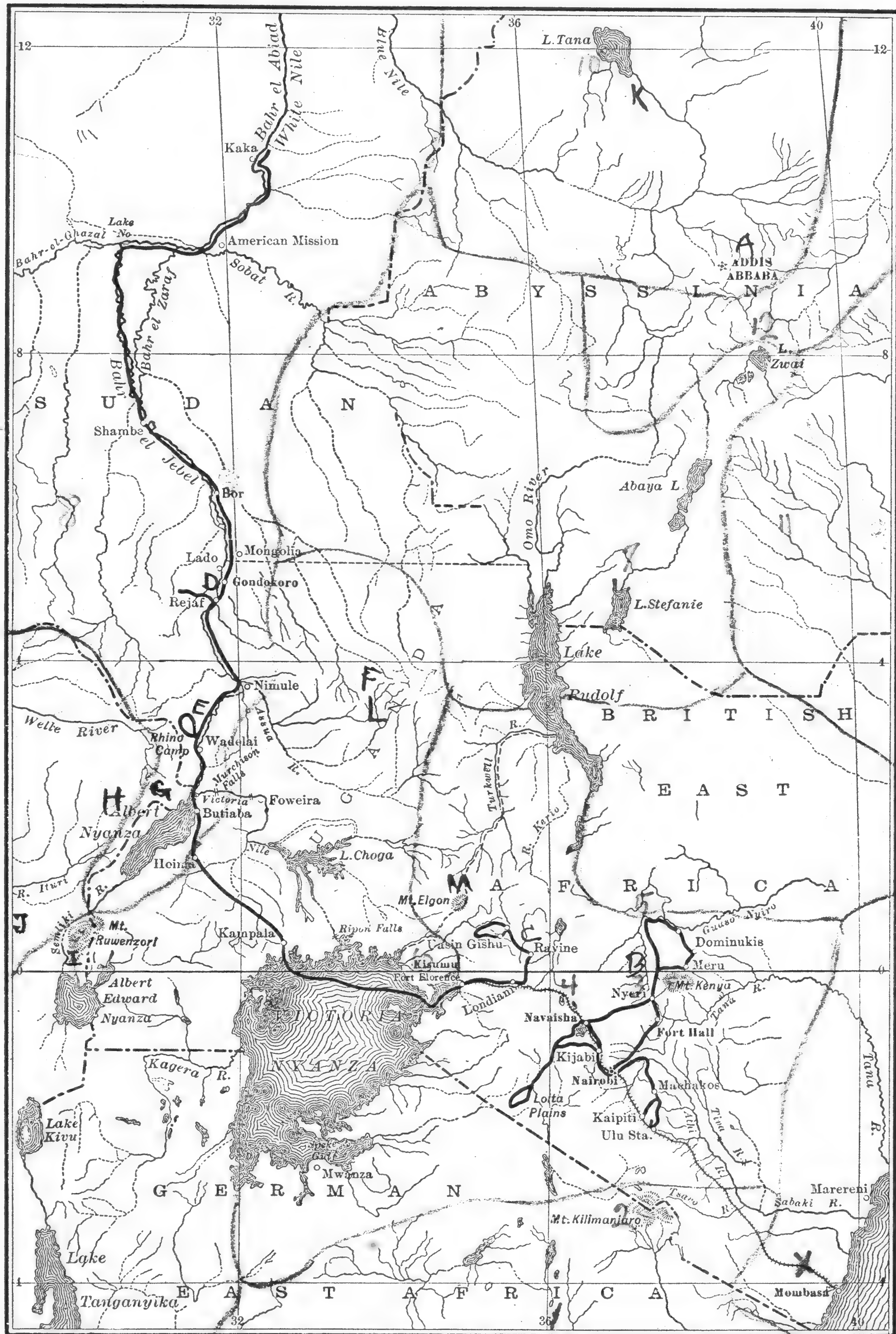
No. U.S.N.M.	164788	164786	164803
Sex and age	♂, aged	♂ adult	♂ adult
Locality	Rhino Camp	Rhino Camp	Rhino Camp
Date			
Collector			
Horn length, straight			
" " spiral curve	16	18 1/2	19 1/2
" spread at tips			
" " greatest			
" circumference at base			
Length, head and body			
" tail vertebrae			
" hind foot			
" ear			
Height at shoulders			
" with neck			
" chest			
Skull, condylo-basal length	285	298	288
" zygomatic breadth	107	111	116
Orbit to premaxilla tips			
Tachyprael length (anteorbital protuberance)			
Premaxilla depth (length)	90	85	97
Nasal length x breadth	118 X 25	120 X	122 X
" width (greatest)	67	70	74
Depth of brain case, fronto-parietal suture	97	104	100
Maxillary tooth row, length	68	78	76
" diastema	96	96	
Mandible, condylo-basal length			
" diastema			



Copied on separate sheet \rightarrow *Nesotragus moschatus*
 Copied on separate sheet \rightarrow *Cephalophus harveyi*
 Copied on separate sheet \rightarrow *Holbus thomasi*

Nesotragus

Removed to
BX 10

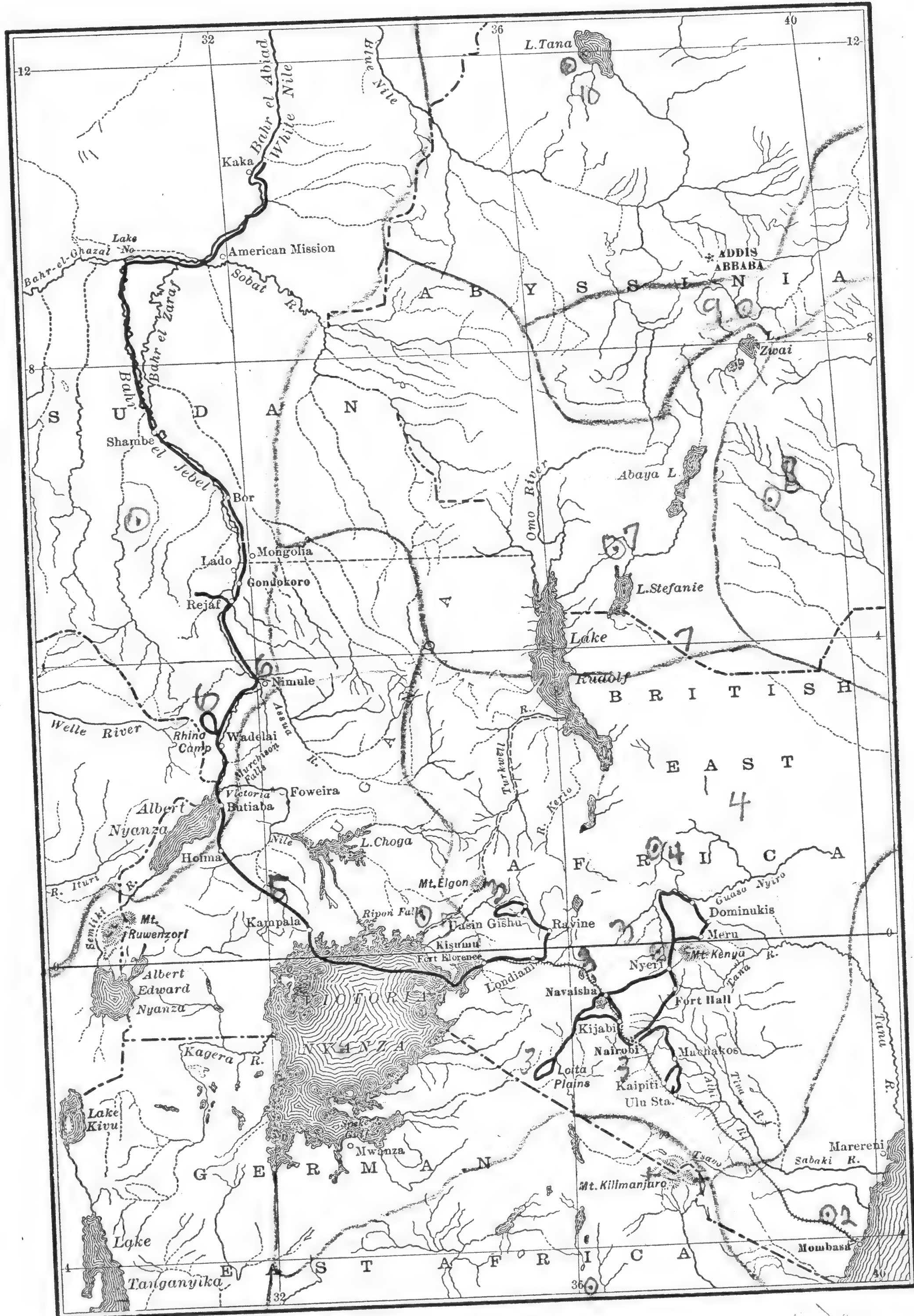


- F - dodingae M
- G - diouae M
- H - simplex M
- I - sassae M
- J - makalae M
- K - fulvocraceus M
- L - locorinae M
- M - laticeps M
- X majae M

- 1 *Tragelaphus nassatus*
- 2 ————— *meruensis*
- 3 ————— *heywoodi*
- 4 ————— *tjaderi*
- 5 ————— *delmeresi*
- 6 ————— *dama*
- 7 ————— *nigripictatus*
- 8 ————— *bor*
- 9 ————— *fasciatus*

- 10 — *decula*
- 11 — *meruliki*
- 12 — *multicolor*
- A — *powelli* (Addis Abbaba)
- B — *brunneus* M
- C — *eldouae* M
- D — *cottoni* M
- E — *meridionalis* M

Removed
to Box 10



- + *Tracylaphus scriptus massaicus*
- 2 _____
- 3 _____
- 4 _____
- 5 _____
- 6 _____
- 7 _____
- ~ _____

heywoodi
delemeri
dama
bor
nigricollis
moelisi

removed
to Box 10



Tragelaphus

- 1 sylvaticus (Cape)
- 2 rosaleyni (Zimpo po)
- 3 ornatus (Chobe R.)
- 4 massaicus (Iruigi)
- 5 meruensis (Mt. Meru)
- 6 tjaderi (Nalsum)
- 7 heywoodi (Nyeri)
- 8 dalma (Kairondo)
- 9 nigripunctatus (I. Stephanie)
- 10 bor (m. Nile)
- 11 decula (I. Tana)
- 12 multicolor (Nansoch Rives)
- 13 meneliki (Wabbi)
- 14 fasciatus (Wabbe R. Sündelund)
- 15 delaveri (Sayer Somali)
- 16 phaleratus (H. Congo)
- 17 keuntsoni (Cameroun Atlas)
- 18 scriptus (Senegal)



Tragelaphus

- 1 *nastasicus* S.E.A. Drangi
- 2 *meruensis* " Mt. Meru
- 3 *heywoodi* B.E.A. Niger
- 4 *tyaderi-heywoodi* " Naburn
- 5 *dama* " Vict. Nyanga
- 6 *bor* " Luta Hill
- 7 *phaleratus* French Congo
- 8 *mignasolatus* L. Stephanie
- 9 *decuda* " Dama
- 10 *merulibi* " Walbi Riv.
- 11 *multicolor* " Namach "
- 12 *delamerei* " Somaliland, Sayer
- 13 *fasaiatus* " " Walbi Riv.

Remove to
Box 10



Proscavia

- 1 — *butleri*
- 2 — ~~abysinnica~~
- 3 — *shoana*
- 4 — *h. princeps*

removed to
Box 10



- Quototragnus*
~~Hob. (Adianta)~~
 I *leche* (T. Ngami)
 II " *smithemani* (S. Meru)
 III *maria* (Bahr-el-Ghazal)
- 1 *vardoni* (Barotse valley)
 2 *segaunus* (Sengha distr.)
 3 *bob thomasi* (Kairouko)
 4 " *virgoscappellatus* (Bahr-el-Ghazal)
 5 " *pousarsquesi* (Sanaga)
 6 *sinigricans* (Sierra Leon)
 7 *bob.* (Senegal)
 8 *roughani* (Wau)
 9 *leucotis* (R. Sobat.)
 ? *k. mergesi* (S. Soudiland)

DISTRIBUTION M.F.R.

HELLER-EDMUND

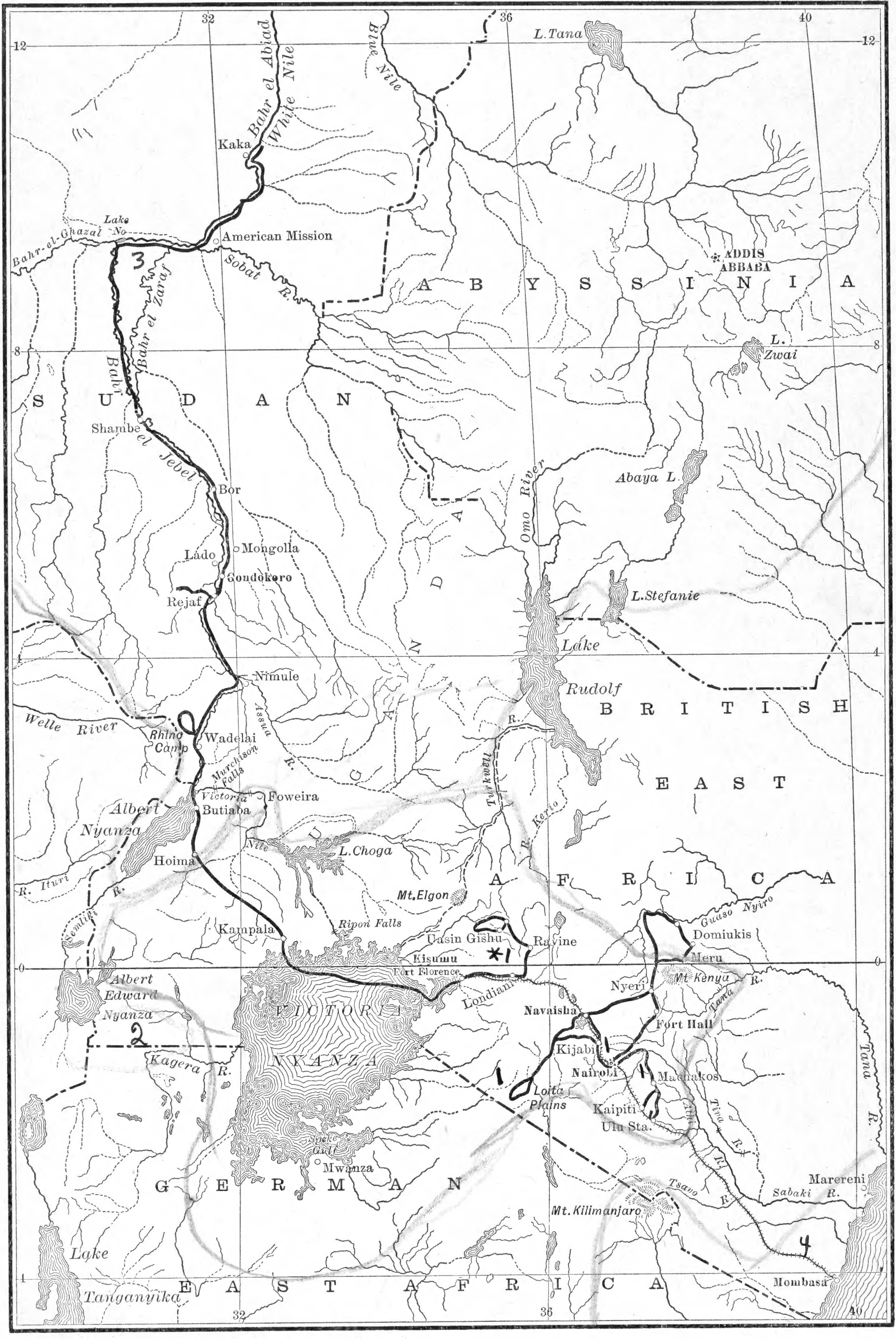
REDUNCA FULVORUFULA CHANLERI

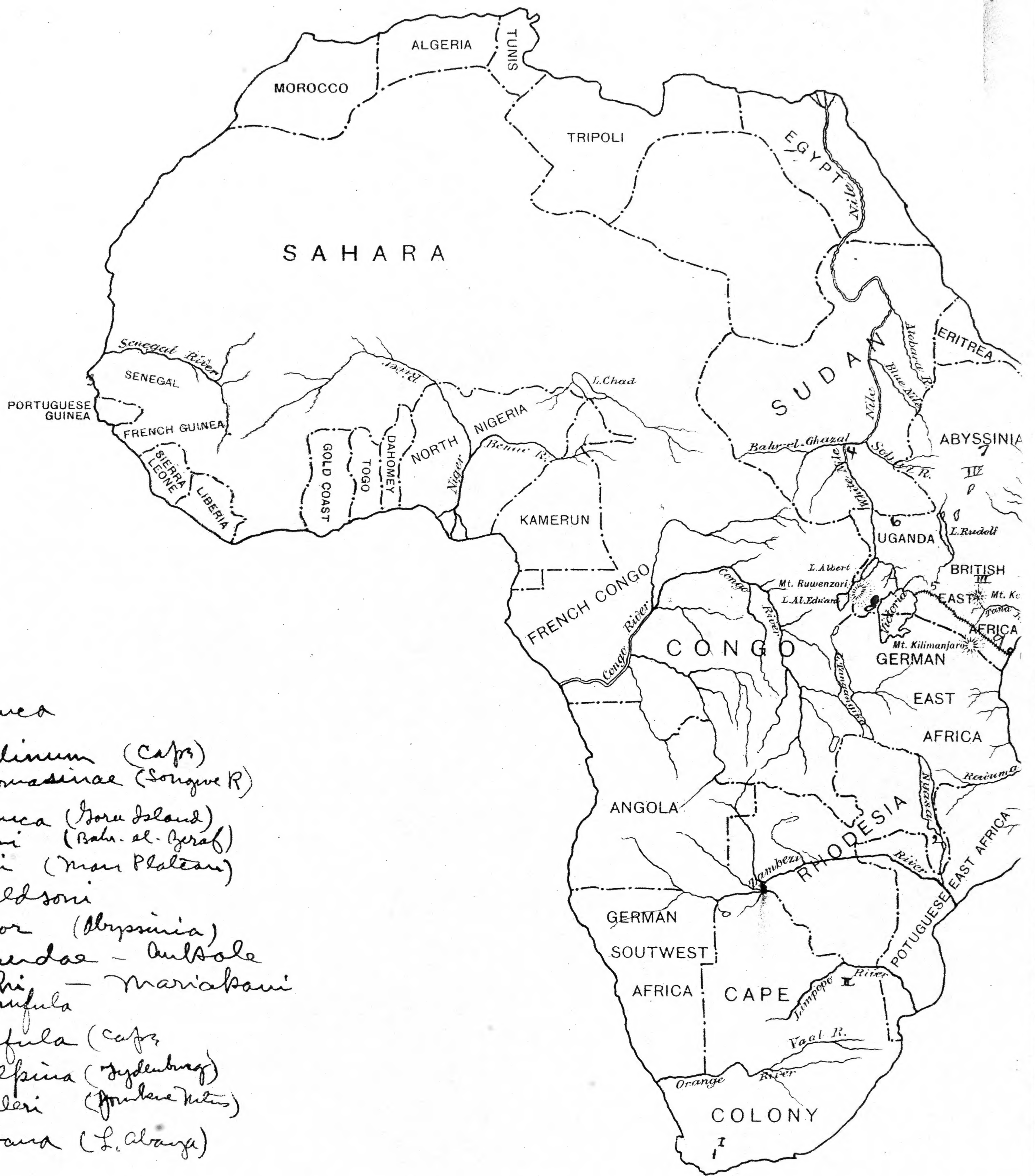
Redunca, Key Horns (Rothschild)

- A¹ Points of horns turned inward
- B¹ Horns short, stout
- C¹ Horns curved outward (bohor
wardi)
- C² " " forward redunca
- B² Horns long, slender, curved outward donaldsoni
- A² Points of horns turned outward or hooked straight forward
coltoni
arundinum

Redunia redunia

Redunia r.
wardi 1
ngandae 2
colloni 3
tohi 4

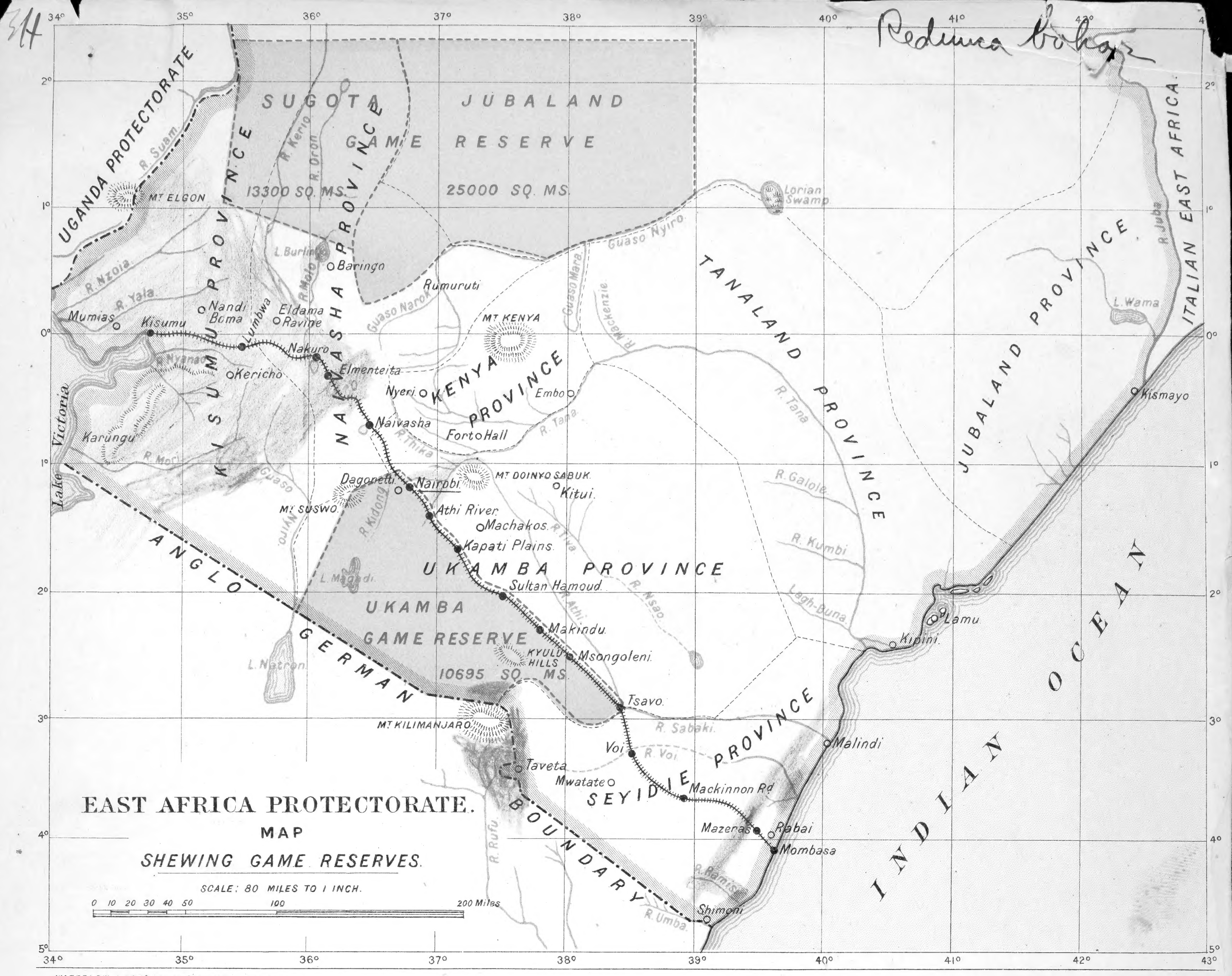




Redunca

- 1 *arundinum* (Cape)
- 2 *thomasi* (Songue R.)
- 3 *redunca* (Gore Island)
- 4 *cottoni* (Bah. el-Geraf)
- 5 *wardi* (Man Plateau)
- 6 *donaldsoni*
- 7 *bolhor* (Abyssinia)
- 8 *ugandae* - Aulsole
- 9 *fochi* - Mariabani
- I *fulvorufula* (Cape)
- II *subalpina* (Seydenburg)
- III *chauleri* (Fouquieria)
- IV *schoana* (L. Alanya)

Removed to box 10



Redunca bohor